

Docket Number: 008312-0306166

PATENT APPLICATION

Client Reference: T2TT-03S0060-1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



In Re the Application of

MANABU AKAMATSU

Group Art Unit: 2655

Application No.: 10/674,424

Examiner: UNKNOWN

Filed: October 1, 2003

Confirmation No.: 5643

For: METHOD AND APPARATUS FOR TURBO CODING AND DECODING IN A DISK DRIVE

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR 1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom. Applicants respectfully request the Examiner return an initialed copy of the enclosed Form PTO-1449 to Applicants with the next Office communication to indicate that the references have been considered, per MPEP § 609.

This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date of this non-CPA application, OR (b) before the mailing date of the first Office Action on the merits in the present application. No certification or fee is required.

U.S. Patent Nos. 6,334,197, 6,304,985, 6,023,783, 6,014,411 and Japanese Patent No. 10-255402 were cited in the attached Austrian Communication (Search and Examination Report) issued January 15, 2004. An English language version of the foreign communication is attached for the Examiner's information. Both the Austrian Communication and the English Abstracts are relied upon to satisfy the requirement of a statement of relevance for the attached references.

Respectfully submitted,

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Date: April 30, 2004

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FORM PTO-1449 (modified)
To: U.S. Department of Commerce
(PW FORM PAT-1449)
Patent and Trademark Office

Atty.
Dkt. No.

M#

Client Ref.

0306166

T2TT-03S0060-1

**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**

Applicant: MANABU AKAMATSU

Appln. No.: 10/674,424

Filing Date: October 1, 2003

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Date: April 30, 2004

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of

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U.S. PATENT DOCUMENTS

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	AR 4,922,437	05/1990	SAKATA et al.			
	BR 5,243,471	09/1993	SHINN			
	CR 5,341,249	08/1994	ABBOTT et al.			
	DR 6,014,411	01/2000	WANG			
	ER 6,023,386	02/2000	REED et al.			
	FR 6,023,783	02/2000	DIVSALAR et al.			
	GR 6,108,388	08/2000	DOUILLARD et al.			
	HR 6,249,398 B1	06/2001	FISHER et al.			
	IR 6,304,985 B1	10/2001	SINDHUSHAYANNA et al.			
	JR 6,334,197 B1	12/2001	EROZ et al.			
	KR 2003/0161062 A1	08/2003	AKAMATSU			
	LR 2003/0174426 A1	09/2003	AKAMATSU			
	MR 2004/0076245 A1	04/2004	OKAMOTO et al.			
	NR					

FOREIGN PATENT DOCUMENTS

	Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract		Translation Readily Available	
					Enclosed	No	Enclose	No
	OR 3318937	06/2002	Japan			X		X
	PR 10-255402	09/1998	Japan	OSHIMA	X			X
	QR 2002-198827	07/2002	Japan	KOKUSAI	X			X
	RR 2001-211411	08/2001	Japan	MATSUSHITA	X			X
	SR 2001-344903	12/2001	Japan	KATO et al.	X			X
	TR							
	UR							

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

VR	Hagenauer et al., "A Viterbi Algorithm with Soft-Decision Outputs and its Applications," German Aerospace Research Establishment, Institute for Communications Technology, 1989, pages 1680-1686			
WR	Yeo et al., "VLSI Architectures for Iterative Decoders in Magnetic Recording Channels," IEEE Transactions of Magnetics, Vol. 37, No. 2, March 2001, Pages 748-755			
XR	Isaka et al., "A tutorial on "parallel concatenated (Turbo) coding," "Turbo (iterative) decoding" and related topics," The Institute of Electronics, Technical Report of IEICE, 1998, pages 1-18			
YR				

Examiner

Date Considered:

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.